



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,992	09/05/2003	Ronald P. Knockeart	2003P11511US/09650-005006	7531

24500 7590 09/24/2004

SIEMENS CORPORATION  
INTELLECTUAL PROPERTY LAW DEPARTMENT  
170 WOOD AVENUE SOUTH  
ISELIN, NJ 08830

EXAMINER

NGUYEN, THU V

ART UNIT	PAPER NUMBER
----------	--------------

3661

DATE MAILED: 09/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/655,992

Applicant(s)

KNOCKEART ET AL.

Examiner

Thu Nguyen

Art Unit

3661



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 05 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 11 and 13-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11 and 13-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 05 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 9/05/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

The preliminary amendment filed on September 9, 2003 has been entered. By this amendment, claims 1-10, 12, 17-26 have been canceled, and claims 11, 13-16 are now pending in the application.

### ***Specification***

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 11, 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Karmel (US 6,353,743) in view of Ito (US 5,990,825).

As per claim 11, Karmel teaches a method for tracking a mobile object comprising: receiving a reference signal from satellite of a positioning system and computing position data related to the location of the mobile object using the reference signal (col.5, lines 14-17);

transmitting the position data from the mobile object to a server (col.5, lines 18-19); at the mobile object, receiving the server position correction data and determining estimated coordinates of the vehicle by combining data computed from the received reference signal and the position correction data (col.5, lines 22-28). Karmel does not teach that the mobile object is a vehicle and computing the position data using the same received position correction data for an interval and not to use the received correction data at subsequent interval of time. However, determining position of a mobile object such as a navigation device, a cell phone, or a PDA, which is implemented on a vehicle would have been well known. Further, Ito suggests including the rate of the correction value RRC indicating range rate correction (col.4, lines 46-49; col.5, lines 3-5), since the correction occurs at certain range rate indicated by the RRC variable, when the vehicle is within the indicated range rate, the same correction value is obviously used in the time interval the vehicle is within the range rate, and when the vehicle is subsequently out of the range rate indicated by the RRC of Ito, the same correction value is obviously not used anymore, instead a new correction value will be used. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to include the range rate indication of Ito to the system of Karmel in order to facilitate updating correction value at appropriate range.

As per claim 13-14, Karmel teaches receiving signals from a plurality of satellites (col.5, lines 14-17); further, Ito teaches using range correction data PRC (col.4, line 28-29), moreover, using range measurement to each positioning satellite in determining position data, combining range correction data and range measurement data, combining signals by adding the uncorrected

Art Unit: 3661

coordinates of the position data to the location correction data would have been well known in position determining using satellite signal.

As per claim 15-16, refer to claim 11 above. Further, as to claim 16, Karmel teaches a receiver 14 (fig.1) and a wireless communication interface 18 (fig.1).

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 305-7687, (for formal communications intended for entry)

**Or:**

(703) 305-7687 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park V, 2451

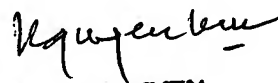
Crystal Drive, Arlington. VA., Seventh Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu Nguyen whose telephone number is (703) 306-9130. The examiner can normally be reached on Monday-Thursday from 8:00 am to 6:00 pm ET.

Art Unit: 3661

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233. The fax phone number for this Group is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1111.

  
**THU V. NGUYEN**  
**PRIMARY EXAMINER**  
September 14, 2004